

INDIVIDUAL TRAINING STANDARDS

1. General. This enclosure contains all of the ITSs for this OccFld, grouped by MOS. Each MOS is contained in a separate Appendix to Enclosure (6).

2. Format. For each ITS, the following elements of information are provided:

a. TASK. The task describes a specific and necessary behavior expected of a Marine in a particular MOS or billet. It is a clearly stated, performance-oriented action requiring a learned skill. Skills that "make" a Marine or qualify that Marine for the appropriate MOS are designated as "Core." Those advanced skills that are mission, grade, or billet specific are designated as "Core Plus."

b. CONDITION(S). This portion of the ITS describes the equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location affecting a Marine's performance of the task under real-world circumstances.

c. STANDARD(S). This portion of the ITS describes the level of proficiency to which the individual must perform the task.

d. PERFORMANCE STEPS. Collectively, the performance steps represent the logical sequence of actions required of the Marine to perform the task to standard. These actions are typically detailed in the references.

e. INITIAL TRAINING SETTING. All ITSs are assigned an initial training setting that includes a specific location for initial instruction [Functional Learning Center (FLC) or Managed On-The-Job Training (MOJT)], a sustainment factor (number of months between evaluation or retraining to maintain the proficiency required by the standard), and a "Required By" grade (the lowest grade at which task proficiency is required).

f. REFERENCE(S). References are doctrinal publications, technical manuals, and other publications upon which the ITS and its performance steps are based. They should be readily available and provide detail to the procedures that are only summarized in the performance steps.

g. TRAINING MATERIEL (Optional). Training materiel includes all training devices, simulators, aids, equipment, and materials [except ammunition, distance learning (DL) products, and performance support tools (PST)] required or recommended to properly train the task under the specified conditions and to the specified standard. Mandatory items are preceded by an asterisk(*).

h. AMMUNITION (Optional). This table, if present, depicts the ammunition, explosives, and/or pyrotechnics required for proper training of the ITS.

i. DISTANCE LEARNING PRODUCT(S) (Optional). This section includes a list of any currently available or planned DL products designed to provide training related to this task.

j. PERFORMANCE SUPPORT TOOL(S) (Optional). This section includes a list of any currently available or planned PSTs designed to provide training related to this task.

k. ADMINISTRATIVE INSTRUCTIONS (Optional). Administrative instructions provide the trainer/instructor with special required or recommended circumstances, including safety precautions, relating to the training or execution of the task. These instructions may also clarify the meaning of the task.

MOS 0600, BASIC COMMUNICATIONS INFORMATION SYSTEMS MARINE

DUTY AREA 01 - PLANNING

TASK: 0600.01.01 (CORE) PLAN OPERATIONAL RISK MANAGEMENT (ORM) IN SUPPORT OF COMMAND, CONTROL, COMMUNICATIONS AND COMPUTERS (C4)

CONDITION(S): Provided planning documents and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Determine risks and hazards.
2. Determine the development controls.
3. Determine the implementation controls.
4. Draft the plan.
5. Submit the plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. MCO 3500.27A, Operational risk Management (ORM)

TASK: 0600.01.02 (CORE) DETERMINE MOBILE ELECTRIC POWER GENERATOR (MEPG) SUPPORT REQUIREMENTS FOR COMMUNICATIONS OPERATIONS

CONDITION(S): Provided planning documents and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Determine total power for the site(s).
2. Determine circuit priorities and plan power distribution.
3. Draft a plan for PEPG support.
4. Submit power requirements for review.
5. Plan for alternate power sources.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: SSgt

REFERENCE(S):

1. Applicable Technical Publications/Manuals

2. FM 20-31, Electric Power Generation in the Field
3. MCWP 6-22, Communication and Information Systems
4. TM 2000-15/2, Principle Technical Characteristics of U.S. Marine Corps Communications Electronic Equipment
5. TM 5-765, Electric Power Transmission and Distribution

TASK: 0600.01.03 (CORE) APPLY BASIC PRINCIPLES OF COMMAND, CONTROL, COMPUTERS, COMMUNICATIONS, AND COMPUTERS (C4)

CONDITION(S): provided planning documents and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Describe the principles of the analog signal.
2. Describe the principles of a digital signal.
3. Describe the principles of a synchronous communications.
4. Describe the principles of asynchronous communications.
5. Describe the process of modulation.
6. Describe the process of demodulation.
7. Describe the principles of broadband transmissions.
8. Describe the principles of baseband transmissions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals

ADMINISTRATIVE INSTRUCTIONS: ADMINISTRATIVE INSTRUCTIONS: Does not apply to the 0612 and 0621 MOS's.

TASK: 0600.01.04 (CORE PLUS) DEVELOP A COMMUNICATION PLAN USING AVAILABLE HARDWARE/SOFTWARE ENGINEERING TOOLS

CONDITION(S): Provided planning documents, equipment, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Input planning data.

2. Review input data.
3. Make appropriate changes, as required.
4. Validate data.
5. Maintain necessary logs.
6. Print reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Applicable Technical Publications/Manuals

ADMINISTRATIVE INSTRUCTIONS: This is allows utilization of available software automation tools, such as TNAPS, Whats up Gold, or what ever the industry standard is that the unit has available to them. Does not apply to programmer and information security MOS's.

DUTY AREA 02 - OPERATIONS

TASK: 0600.02.01 (CORE) IMPLEMENT THE OPERATIONAL RISK MANAGEMENT (ORM) PLAN

CONDITION(S): Provided the ORM plan and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Comply with the ORM plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO 3500.27A, Operational risk Management (ORM)
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TASK: 0600.02.02 (CORE) GROUND EQUIPMENT

CONDITION(S): Provided planning documents, equipment, and references.

STANDARD(S): Per the references

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Install grounding rods/system.
3. Ensure electrical connections.
4. Improve electrical grounds with rock salt or appropriate chemicals, as applicable.
5. Apply power after ground is tested.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. FM 11-490-6, Long Haul Telecommunications Services
3. MIL-HDBK 419_, Grounding Techniques

TRAINING MATERIEL:

1. AN/GSQ-261 Tactical Remote Sensor System (TRSS)
2. AN/MRC-138B Radio Set
3. AN/MRC-142 Radio Set

4. AN/MRC-145 Radio Set
5. AN/PRC-104 Radio Set
6. AN/PRC-113 (V) 3 Radio Set
7. AN/PRC-119 Radio Set
8. AN/TRC-170 Radio Terminal Set
9. AN/TSC-85B Ground Mobile Forces Satellite Communications Terminal
10. AN/TSC-93B Ground Mobile Forces Satellite Communications Terminal
11. AN/TSC-96A Satellite Communications Central
12. ASAPS-4 Power Supply
13. Ground Stakes
14. Lightweight Multi-Band Satellite Terminal (LMST)

ADMINISTRATIVE INSTRUCTIONS: Even though we have 0600.01.01 which should cover the safety concerns, during the SME conference, it was felt that the mention of safety precautions here was still a requirement.

TASK: 0600.02.03 (CORE) INSTALL POWER SUPPLY

CONDITION(S): Provided power supply, equipment, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Ground power supply.
3. Ensure power supply is in off-position.
4. Ensure correct cables are installed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 08077A-14, Power Supply PP-7733/GRC
3. TM 9406-15, Grounding Procedures

TRAINING MATERIEL:

1. ASAPS-4 Power Supply

2. Ground Stakes
3. HP-274B Power Supply
4. HP-291A Power Supply
5. PP-2953/U Power Supply
6. PP-6836/U Power Supply
7. PP-7332
8. PP-7333/GRC Power Supply
9. PP-8035 AC Power Converter
10. PP-8436/P Power Supply

ADMINISTRATIVE INSTRUCTIONS: PP-7333, PP-7332, and PP-8435.

TASK: 0600.02.04 (CORE) IMPLEMENT EMERGENCY ACTION PLAN (EAP)

CONDITION(S): Provided an emergency action plan, command authority to execute the plan, designated equipment, personnel, tools, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Receive the instructions.
2. Review the plan.
3. Execute the plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. SOP, UNIT
3. CMS-21, COMSEC Material System Policy and Procedures

TASK: 0600.02.05 (CORE) IMPLEMENT COMMAND, CONTROL, COMMUNICATIONS, AND COMPUTERS (C4) PLANS

CONDITION(S): Provided planning documents and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Review planning documents.
2. Execute a single channel radio plan.
3. Execute a switching system plan.
4. Execute a terrestrial system plan.
5. Execute a data network plan.
6. Execute a Information Systems plan.
7. Execute a GMF/TACSAT plan.
8. Execute the Operational risk Management (ORM) plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. MCO 3500.27A, Operational risk Management (ORM)
3. MCWP 6-22, Communication and Information Systems

TRAINING MATERIEL:

1. MOS Specific Equipment

TASK: 0600.02.06 (CORE PLUS) CAMOUFLAGE COMMUNICATIONS EQUIPMENT

CONDITION(S): Provided equipment, camouflage material, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Plan camouflage to blend with the natural terrain.
2. Choose type of material to be used.
3. Erect the camouflage.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 5-1080-200-13&P, Operators, Organizational and Direct Support Manual for Lightweight Camouflage Screen Systems

TRAINING MATERIEL:

1. * Camouflage Equipment
2. MOS Specific Equipment

TASK: 0600.02.07 (CORE) EMPLOY ELECTROMAGNETIC INTERFERENCE (EMI) MEASURES

CONDITION(S): Provided planning documents, equipment, references, and a requirement to install tactical communications equipment

STANDARD(S): Per the references

PERFORMANCE STEPS:

1. Employ grounding procedures
2. Install communications equipment.
3. Provide adequate separation between possible EMI emitters.
4. Mark radiation hazards to personnel/fuel/explosives around/near EMI emitters.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TRADOC Pamphlet 525-23

TASK: 0600.02.08 (CORE) PERFORM INFORMATION SECURITY (INFOSEC) PROCEDURES

CONDITION(S): Provided planning documents, references, and INFOSEC/COMSEC material.

STANDARD(S): Per the references

PERFORMANCE STEPS:

1. Maintain physical, cryptographic, transmission, and mission security.
2. Report security risks.
3. Report INFOSEC/COMSEC violations.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. CMS-21, COMSEC Material System Policy and Procedures

3. MCWP 6-22, Communication and Information Systems
4. SECNAVINST 5510.30_, Department of the Navy Personal Security Program
5. SECNAVINST 5510.36, DON Information Security Program (ISP) Regulation

DISTANCE LEARNING PRODUCT(S):

1. MCI 2525, Communications Security
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TASK: 0600.02.09 (CORE PLUS) PERFORM OVER-THE-AIR REKEY/OVER-THE-AIR TRANSMISSION (OTAR/OTAT)

CONDITION(S): Provided planning documents, equipment, and references.

STANDARD(S): Per the references

PERFORMANCE STEPS:

1. Prepare receiving station for OTAR/OTAT operations
2. Prepare sending station for OTAR/OTAT operations.
3. Conduct OTAR/OTAT operations.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. CMS-21, COMSEC Material System Policy and Procedures
3. NAG-16, Field Generation and Over-the-Air Distribution of COMSEC KEY in Support of Tactical Ops and Exercises

TRAINING MATERIEL:

1. Data Transfer Device (DTD)
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TASK: 0600.02.10 (CORE) OPERATE DATA TRANSFER DEVICE

CONDITION(S): Provided planning documents, equipment, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Determine COMSEC requirements.
2. Transfer data via selected COMSEC device.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. CMS-21, COMSEC Material System Policy and Procedures
3. NAG-16, Field Generation and Over-the-Air Distribution of COMSEC KEY in Support of Tactical Ops and Exercises

TRAINING MATERIEL:

1. MOS Specific Equipment

DUTY AREA 03 - SUPERVISE

TASK: 0600.03.01 (CORE) SUPERVISE MAINTENANCE MANAGEMENT FOR A COMMUNICATION SECTION

CONDITION(S): Provided a table of equipment (T/E), maintenance records, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Review all orders, directives, and reports pertaining to maintenance.
2. Direct maintenance to be performed according to schedule.
3. Direct maintenance of records.
4. Oversee maintenance cycle of assigned equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 4790.2_, MIMMS Field Procedures Manual
4. UM 4400-124, FMF SASSY Using Unit Procedures
5. UM 4790-5, MIMMS (AIS) FMSS

TASK: 0600.03.02 (CORE PLUS) SUPERVISE EMBARKATION OF COMMUNICATION ASSETS

CONDITION(S): Provided equipment, personnel, planning documents, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Review unit Standing Operating Procedure (SOP) embarkation procedures.
2. Coordinate with unit embarkation personnel.
3. Direct the embarkation according to unit procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. SOP, UNIT
3. MCO P4600.7_, USMC Transportation Manual

MCO 1510.118A
DRAFT

4. MCWP 4-26, Supply Operations

Appendix A to
ENCLOSURE (6)

DUTY AREA 04 - MAINTENANCE

TASK: 0600.04.01 (CORE) PERFORM PREVENTIVE MAINTENANCE (PM) ON COMMUNICATIONS EQUIPMENT

CONDITION(S): Provided designated equipment, PM materials, safety equipment, record jackets, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Conduct Stock List-3 (SL-3) inventory.
3. Inspect equipment.
4. Conduct PM procedures per the schedule.
5. Complete equipment records.
6. Report discrepancies.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 4700-15/1, Equipment Record Procedures

TRAINING MATERIEL:

1. Cleaning Materials, as applicable
2. Communications Equipment, as applicable

TASK: 0600.04.02 (CORE) TROUBLESHOOT COMMUNICATIONS EQUIPMENT

CONDITION(S): Provided faulty equipment and references.

STANDARD(S): To determine cause of equipment failure and return it to a fully operational status, per the references.

PERFORMANCE STEPS:

1. Troubleshoot problems.
2. Identify solutions.
3. Correct problems.
4. Report as required.
5. Perform operational check.

6. Document actions taken.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
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TASK: 0600.04.03 (CORE) PROTECT ELECTROSTATIC DISCHARGE (ESD) SENSITIVE DEVICES

CONDITION(S): Provided ESD sensitive devices, ESD protection materials, ESD labels, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Review references.
2. Identify materials requiring ESD protection.
3. Handle equipment per the references.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO 2410.2_, Electromagnetic Environmental Effects (E3) Control Program
 2. TI 4400-15/1, Packaging, Handling, Storage and Transportation of Electrostatic Discharge Sensitive Items
 3. TM 9406-15, Grounding Procedures
 4. TM 9999-15/1, ESD Awareness Electro-Static Discharge
 5. TM 9999-15/2, Electro-Static Discharge (ESD) Management
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TASK: 0600.04.04 (CORE PLUS) PREPARE AN EQUIPMENT REPAIR ORDER (ERO)

CONDITION(S): Provided TM-4700, an ERO, and references.

STANDARD(S): To complete equipment repair, per the references.

PERFORMANCE STEPS:

1. Accurately enter required information onto a blank ERO form.
2. Enter required information on the equipment record log.
3. Induct the equipment into the maintenance cycle.
4. Close the ERO when maintenance is completed.

5. File the ERO in equipment record jacket.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual
2. TM 4700-15/1, Equipment Record Procedures
3. UM 4790-5, MIMMS (AIS) FMSS

TASK: 0600.04.05 (CORE PLUS) PERFORM OPERATOR LEVEL PREVENTIVE MAINTENANCE (PM) ON COMMUNICATION ASSETS

CONDITION(S): Provided equipment, tools, safety equipment, PM materials, record jackets, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Conduct Stock List-3 (SL-3) inventory.
3. Inspect equipment.
4. Conduct PM procedures.
5. Complete equipment records.
6. Report discrepancies.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 4700-15/1, Equipment Record Procedures

TRAINING MATERIEL:

1. Cleaning Materials, as applicable
2. Motor Vehicle, as applicable

TASK: 0600.04.06 (CORE PLUS) PROCESS TROUBLE CALL

CONDITION(S): Provided a trouble call, faulty equipment, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Respond to trouble call.
2. Maintain trouble call log.
3. Evaluate trouble call.
4. Research solutions to problem.
5. Resolve problem.
6. Forward to appropriate maintenance echelon, if required.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
 2. MCO P4790.2, MIMMS Field Procedures Manual
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TASK: 0600.04.07 (CORE PLUS) WEATHERPROOF COMMUNICATIONS EQUIPMENT

CONDITION(S): Provided equipment, weatherproofing materials, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Weatherproof the equipment.
3. Conduct operational check.

INITIAL TRAINING SETTING: MOJT Sustainment: 3 Req By: PFC

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. FMFM 4, Combat Service Support
3. MCO P4600.7_, USMC Transportation Manual
4. MCWP 4-26, Supply Operations

TRAINING MATERIEL:

1. Descant
2. Duct Tape
3. Dulseal

4. Plastic Bags
5. Tools, as applicable

TASK: 0600.04.08 (CORE PLUS) PROPERLY MAINTAIN, HANDLE, AND STORE BATTERIES

CONDITION(S): Provided designated batteries, personnel.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Identify the type of battery (ie: disposable or rechargeable).
3. Assess storage and disposable requirements.
4. Calculate battery requirements by equipment type.
5. Recharge batteries, as required.
6. Monitor/Inspect storage and disposal of batteries.
7. Certify compliance.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. Unit SOP
3. MCO P4400.150, Consumer Level Supply Policy Manual
4. SB, Battery Procedures

TRAINING MATERIEL:

1. Batteries, as applicable

DUTY AREA 05 - TRAINING

TASK: 0600.05.01 (CORE PLUS) CONDUCT MANAGED-ON-THE-JOB TRAINING (MOJT)

CONDITION(S): Provided personnel requiring training and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Identify formal school availabilities.
2. Determine Personnel skill deficiencies.
3. Determine training requirements
4. Create the training plan.
5. Develop training method.
6. Review lesson plans.
7. Schedule participants and trainers.
8. Evaluate training effectiveness.
9. Revise plan according to evaluation.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Unit SOP
2. MCO 4790.1B, MARINE CORPS INTEGRATED MANAGEMENT SYSTEM (MIMMS) INTRODUCTION MANUAL
3. MCO P1200.7, MOS Manual
4. MCWP 6-22, Communication and Information Systems

TASK: 0600.05.02 (CORE PLUS) CONDUCT MILITARY OCCUPATIONAL SPECIALTY (MOS) SKILL PROGRESSION TRAINING

CONDITION(S): Provided class assignment, personnel to receive training, a training site, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Develop training outline.
2. Prepare training site.

3. Conduct the training.
4. Record the training in appropriate records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. SOP, UNIT
3. SOP, UNIT TRAINING
4. Unit Individual Training Records
5. Unit SOP
6. MCO P4790.2, MIMMS Field Procedures Manual
7. MCRP 3-0A, Unit Training Management Guide
8. MCRP 3-0B, How to Conduct Training